paleoecological interpretations of the fossil biota of the Carpinteria asphalt deposit (Chaney and Mason, op. cit.; Wilson, Publ. Carnegie Inst. Wash. 440:59–76. 1933; DeMay, Publ. Carnegie Inst. Wash. 530:61–76. 1941). With the identity of *P. hoffmannii* resolved, all members of the Carpinteria fossil flora (and all Late Pleistocene floras in California) are believed to represent living taxa.

D. I. Axelrod and C. F. Smith assisted in the preparation of this note.—Scott E. MILLER, Santa Barbara Museum of Natural History, Santa Barbara, CA 93105. (Accepted 28 Apr 1979.)

CHROMOSOME NUMBER FOR Calochortus tiburonensis (LILIACEAE).—Calochortus tiburonensis Hill from the type locality was found to have ten pairs of chromosomes in PMCs at metaphase 1. The aceto-carmine squash technique was used. Drawings of the chromosomes have been attached to Ornduff 70816 (JEPS) collected in 1973 on Ring Mt., Tiburon Peninsula, Marin Co., CA. No further voucher was collected because of the distinctiveness and rarity of this species, which is known only from this location. Calochortus luteus Dougl. ex Lindl. and C. umbellatus Wood, which are also found on Tiburon Peninsula (Howell, Man. fl. pls. ferns Marin Co., Calif. 1970), are not sympatric with C. tiburonensis. The species is listed as both very rare and endangered (Powell, ed., Inventory rare endang. vasc. pls., Calif. Native Pl. Soc. Special Publ. 1. 1974) and has been proposed for designation as "Endangered" under the federal Endangered Species Act of 1973 (Fed. Reg. 41:24552. 1976). It was listed as "Endangered" by the California State Fish and Game Commission on 6 Oct 1978.

In his description of C. tiburonensis, Hill (Madroño 22:100-104. 1973) discussed the sectional relationships of this species using Ownbey's taxonomy of the genus (Ann. Missouri Bot. Gard. 27:371-561. 1940). Ownbey divided the genus into three sections primarily on bulbcoat and capsule morphology. Differences in chromosome number mostly parallel these delimitations. The fibrous-reticulate bulbcoat and nonwinged capsule of C. tiburonensis would place it in sect. Cyclobothra. Hill questioned this association with reference to other traits, most notably gland morphology, which more closely resembles sect. Calochortus. The chromosome number n=10 also aligns the species with sect. Calochortus, where x=10. On the basis of four species, sect. Cyclobothra has x=9 (Beal and Ownbey, Bot. Gaz. 104:553-562. 1943; Cave, Univ. Calif. Publ. Bot. 57:1-58. 1970). Counts should be made for the remaining 11 species in sect. Cyclobothra before assessing the sectional status of C. tiburonensis on the basis of chromosome number.

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Malacothrix clevelandii Complex (Compositae—Lactuceae) Revisited.—In 1962 Malacothrix clevelandii A. Gray was divided into four species by Davis and Raven (Madroño 16:258–266). One of the proposed new species was M. similis, a tetraploid (2n = 28) whose pollen is significantly larger than that of the diploid M. clevelandii (p < 0.01, Student's t-test). A second new species, M. stebbinsii, also was found to have larger pollen than M. clevelandii and it was conjectured that the chromosome count of 2n = 28 reported by Stebbins et al. (Univ. Calif. Publ. Bot. 26:401–430. 1953) for "M. clevelandii" from Tucson, AZ (for which no voucher could be found) could be referred to M. stebbinsii. On a collecting trip through Arizona in 1973, I found a population of M. stebbinsii (Pima Co., 0.8 km se. of hwy 386 along a gravel road 3.2 km s. of the jct of hwys 86 and 386, 14 Apr 1973, Davis 348) and chromosome counts of 2n = 28 were obtained. Plants of M. stebbinsii have been grown from seed in a controlled environment under the same conditions as M. clevelandii (from populations